

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 16 as follows.

- 1 1. (Currently Amended) A method of ~~handling for lock contention management~~, the
- 2 method comprising the steps of:
- 3 a first requester transmitting to a lock management system a first request for a
- 4 particular lock on a resource;
- 5 wherein said lock management system manages locks on resources that ~~may bear~~
- 6 granted to a plurality of processes that ~~can~~ to access said resource;
- 7 ~~determining said first request cannot be honored because of a blocking condition;~~
- 8 ~~in response to determining said first request cannot be honored:~~
- 9 ~~creating first data that indicates the blocking condition; and~~
- 10 ~~after creating said first data:~~
- 11 ~~storing in a store, as a new item of data in the store, said first data, and~~
- 12 ~~receiving a message transmitting from said lock management system a~~
- 13 ~~message that indicates that said first request to lock a resource~~
- 14 ~~is denied;~~
- 15 ~~wherein a blocking condition caused the denial of~~
- 16 ~~said first request; requester receiving said message from said lock management~~
- 17 ~~system;~~
- 18 wherein said message includes said first data; and
- 19 based on said first data, said first requester transmitting a second request for
- 20 notification that indicates when said blocking condition should no longer
- 21 cause denial of a request for a lock on said resource.

1 2. (Original) The method of claim 1, wherein no process of said plurality of processes
2 holds a lock issued by said lock management system for said resource.

1 3. (Original) The method of claim 1, wherein the steps further include:
2 said first requester receiving said notification; and
3 in response to receiving said notification, said first requester transmitting another
4 request to said lock management system for said particular lock on said resource.

1 4. (Original) The method of claim 3, wherein the step of said first requester transmitting
2 another request includes transmitting second data that indicates that said blocking
3 condition should no longer cause denial of a request for said lock of said resource.

1 5. (Original) The method of claim 4, wherein the steps further include said lock
2 management system processing said other request without denial based on said
3 second data.

1 6. (Original) The method of claim 1, wherein:
2 a second process of said plurality of processes is performing an operation that causes
3 said blocking condition;
4 said first data identifies another resource locked by said second process for which
5 said first requester may acquire a lock when said blocking condition should no
6 longer cause denial of a request for said lock of said resource; and
7 wherein the step of transmitting said second request includes transmitting a request
8 for said lock on said other resource.

1 7. (Original) The method of claim 1, wherein:
2 said first requester is a process of said plurality of processes;
3 wherein said resource is a data block in a b-tree index; and

4 wherein a second process of said plurality of processes is performing a block split
5 operation on said data block.

1 8 - 15. (Withdrawn)

1 16. (Currently Amended) A computer-readable medium carrying one or more sequences
2 of instructions for ~~handling lock contention~~management, wherein execution of the one
3 or more sequences of instructions by one or more processors causes the one or more
4 processors to perform the steps of:

5 a first requester transmitting to a lock management system a first request for a
6 particular lock on a resource;

7 wherein said lock management system manages locks on resources that ~~may bear~~
8 granted to a plurality of processes that ~~can~~to access said resource;

9 determining said first request cannot be honored because of a blocking condition;
10 in response to determining said first request cannot be honored:

11 creating first data that indicates the blocking condition; and
12 after creating said first data:

13 storing in a store, as a new item of data in the store, said first data, and
14 receiving a messagetransmitting from said lock management system a
15 message that indicates that said first request to lock a resource
16 is denied;

17 ~~wherein a blocking condition caused the denial of~~
18 ~~said first request; requester receiving said message from said lock management~~
19 system;

20 wherein said message includes said first data; and

21 based on said first data, said first requester transmitting a second request for
22 notification that indicates when said blocking condition should no longer
23 cause denial of a request for a lock on said resource.

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1 17. (Original) The computer-readable medium of claim 16, wherein no process of said
2 plurality of processes holds a lock issued by said lock management system for said
3 resource.

1 18. (Original) The computer-readable medium of claim 16, wherein the steps further
2 include:

3 said first requester receiving said notification; and
4 in response to receiving said notification, said first requester transmitting another
5 request to said lock management system for said particular lock on said resource.

1 19. (Original) The computer-readable medium of claim 18, wherein the step of said first
2 requester transmitting another request includes transmitting second data that indicates
3 that said blocking condition should no longer cause denial of a request for said lock
4 of said resource.

1 20. (Original) The computer-readable medium of claim 19, wherein the steps further
2 include said lock management system processing said other request without denial
3 based on said second data.

1 21. (Original) The computer-readable medium of claim 16, wherein:
2 a second process of said plurality of processes is performing an operation that causes
3 said blocking condition;

4 said first data identifies another resource locked by said second process for which
5 said first requester may acquire a lock when said blocking condition should no
6 longer cause denial of a request for said lock of said resource; and
7 wherein the step of transmitting said second request includes transmitting a request
8 for said lock on said other resource.

1 22. (Original) The computer-readable medium of claim 16, wherein:
2 said first requester is a process of said plurality of processes;
3 wherein said resource is a data block in a b-tree index; and
4 wherein a second process of said plurality of processes is performing a block split
5 operation on said data block.

1 23 – 30. (Withdrawn)